

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	09/623,922
Filing Date	August 31, 2001
First Named Inventor	Papadopoulos, Vassilios
Group Art Unit	1647
Examiner Name	Dang, Ian

Sheet 1 of 3

Attorney Docket No: 1941.017US1

## US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
/I.D./	US-20030157095A1	08/21/2003	Papadopoulos, V.	03/25/1998
↓	US-20060106202A1	05/18/2006	Papadopoulos, V., et al.	01/13/2006
↓	US-5,350,836	09/27/1994	Kopchick, J. J., et al.	05/04/1992
↓	US-5,948,676	09/07/1999	Chang, Y., et al.	10/10/1996

## FOREIGN PATENT DOCUMENTS

Examiner Initials *	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
/I.D./	WO-0001821A2	01/13/2000	Lal, P., et al.	
↓	WO-0009549A2	02/24/2000	Papadopoulos, V.	
↓	WO-9503325	02/02/1995	Lehrer, Robert L., et al.	
↓	WO-9718826	05/29/1997	Chang, Conway C., et al.	
↓	WO-9946389	09/16/1999	Goldenberg, David M., et al.	
↓	WO-9946575	09/16/1999	Papadopoulos, V.	
↓	WO-9949316A2	09/30/1999	Papadopoulos, V., et al.	

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

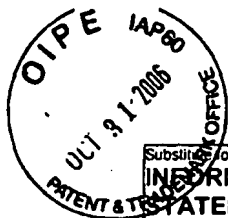
Examiner Initials *	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		<del>"Extended European Search Report and communication - Application No. 06076502.2 - 1223, (September 29, 2006), 9 pgs</del>	
		<del>"International Search Report in PCT/US 99/05653", 5 Pages</del>	
		<del>BOYLE, T. P., "Structure of the murine gene encoding apolipoprotein A-I", Gene 117(2) (August 1992), 243-247</del>	
		<del>COLLES, S. M., et al., "Cholesterol interaction with recombinant human sterol carrier protein-2", Lipids, 30(9), (1995), 795-803</del>	
		<del>EVER, L., et al., "Two alternatively spliced Meig1 messenger RNA species are differentially expressed in the somatic and in the germ-cell compartments of the testis", Cell Growth Differ., 10(1), (January 1999), 19-26</del>	
		<del>FARGES, R., "Site-directed mutagenesis of the peripheral benzodiazepine receptor: identification of amino acids implicated in the binding site of Ro5 4864", Mol. Pharmacol., 46(6), (December 1994), 1160-7</del>	
		<del>GALIEGUE, S., et al., "Cloning and Characterization of PRAX-1 - A New Protein that Specifically Interacts with the Peripheral Benzodiazepine Receptor", The Journal of Biological Chemistry, 274(5), (January 1999), 2938-2952</del>	
		<del>GARNIER, et al., "In vitro reconstitution of a functional peripheral-type benzodiazepine receptor from mouse Leydig tumor cells", Molecular Pharmacology, 45, (1994), 201-211</del>	
		<del>GLENNEY, J. R., "The sequence of human caveolin reveals identity with VIP21, a component of transport vesicles.", FEBS Letters, 314(1), (December 1992), 45-48</del>	

EXAMINER

/Ian Dang/

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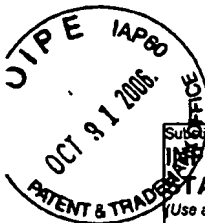
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		HARDER, T, et al., "Specific release of membrane-bound annexin II and cortical cytoskeletal elements by sequestration of membrane cholesterol", <u>Mol Biol Cell.</u> , 8(3), (1997),533-45	
		HARDWICK, M., et al., "Abstract #1569 The Peripheral-type Benzodiazepine Receptor in Human Breast Cancer", <u>Proceedings of the American Association for Cancer Research</u> , 38, (April 1997),233	
		HARDWICK, M., "Peripheral-Type Benzodiazepine Receptor (PBR) in Human Breast Cancer: Correlation of Breast Cancer Cell Aggressive Phenotype with PBR Expression, Nuclear Localization, and PBR-mediated Cell Proliferation and Nuclear Transport of Cholesterol", <u>Cancer Research</u> , 59(4), (1999),831-842	
		HORINOUCHI, S, et al., "Cloning, nucleotide sequence, and transcriptional analysis of the NAD(P)-dependent cholesterol dehydrogenase gene from a Nocardia sp. and its hyperexpression in Streptomyces spp.", <u>Appl Environ Microbiol.</u> , 57(5), (1991),1386-1393	
		ISHIZAKI, T, et al., "Nucleotide sequence of the gene for cholesterol oxidase from a Streptomyces sp", <u>Journal of Bacteriology</u> , (1991),596-601	
		JOSEPH-LIAUZUN, EVELYNE, et al., "Topological analysis of the peripheral benzodiazepine receptor in yeast mitochondrial membranes supports a five- transmembrane structure", <u>J Biol Chem.</u> , 273(4), (January1998),2146-52	
		KAI, M, et al., "Synchronous circadian rhythms of mRNA levels and activities of cholesterol 7 alpha hydroxylase in the rabbit and rat", <u>Journal of Lipid Research</u> , 36, (1995),367-374	
		KOZIKOWSKI, A. P., et al., "Synthesis and Biology of a 7-Nitro-2,1,3-benzoxadiazol-4-yl Derivative of 2-Phenylindole-3-acetamide: A Fluorescent Probe for the Peripheral-Type Benzodiazepine Receptor", <u>Journal of Medicinal Chemistry</u> , 40(16), (1997),2435-2439	
		KRUEGER, K. E., "Peripheral-type Benzodiazepine Receptors Mediate Translocation of Cholesterol from Outer to Inner Mitochondrial Membranes in Adrenocortical Cells", <u>The Journal of Biological Chemistry</u> , 265(25), (1990),15015-15022	
		LI, H., et al., "M. musculus peripheral benzodiazepine receptor associated protein", <u>Database EMBL [Online] AC AF022770</u> , (October 1997),1 page	
		LI, H., "Peripheral-type benzodiazepine receptor function in cholesterol transport. Identification of a putative cholesterol recognition/interaction amino acid sequence and consensus pattern", <u>Endocrinology</u> , 139(12), (1999),4991-4997	
		LIU, JUN, et al., "Molecular cloning, chromosomal localization of human peripheral-type benzodiazepine receptor- and protein kinase A regulatory subunit type 1A (PRKAR1A)- associated protein PAP7 and studies in PRKAR1A mutant cells and tissues", <u>The FASEB Journal</u> , express article 10.1096/fi.02-1066fje, (April 2003),27 pgs.	
		MIETTINEN, H., "Expression of peripheral-type benzodiazepine receptor and diazepam binding inhibitor in human astrocytomas: relationship to cell proliferation", <u>Cancer Research</u> , 55(12), (June 15, 1995),2691-2695	
		MURATA, M., et al., "VIP21/caveolin is a cholesterol-binding protein", <u>Proc Nat Acad Sci</u> , 92(22), (1995),10339-10343	

EXAMINER

/Ian Dang/

DATE CONSIDERED

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		NILSSON, J, et al., "cDNA cloning of human-milk bile-salt-stimulated lipase and evidence for its identity to pancreatic carboxylic ester hydrolase", <u>European Journal of Biochemistry</u> , 192(2), (1990),543-550	
		PAPADOPOULOS, V., et al., "CHOLESTEROL RECOGNITION SEQUENCE", <u>US Patent Application Ser. No. 09/623,922</u> , filed September 11, 2000	
		PAPADOPOULOS, V., et al., "PERIPHERAL-TYPE BENZODIAZEPINE RECEPTOR: A TOOL FOR DETECTION, DIAGNOSIS, PROGNOSIS, AND TREATMENT OF CANCER", <u>US Patent Application Ser. No. 09/646,932</u> , filed September 25, 2000	
		PAPADOPOULOS, V., "Peripheral-type benzodiazepine/diazepam binding inhibitor receptor: biological role in steroidogenic cell function", <u>Endocrine Review</u> , 14(2), (1993),222-240	
		PAPADOPOULOS, V., "Structure and function of the peripheral-type benzodiazepine receptor in steroidogenic cells", <u>Proceedings of the Society for Experimental Biology &amp; Medicine</u> , 217(2), (February 1998),130-142	
		PAPADOPOULOS, V., et al., "Targeted Disruption of the Peripheral-Type Benzodiazepine Receptor Gene Inhibits Steroidogenesis in the R2C Leydig Tumor Cell Line", <u>The Journal of Biological Chemistry</u> , 272(51), American Society of Biological Chemists, Baltimore, (December 1997),32129-22135	
		PAPADOPOULOS, VASSILIOS, et al., "The Peripheral-type Benzodiazepine Receptor Is Functionally Linked to Leydig Cell Steroidogenesis", <u>Journal of Biological Chemistry</u> 265(7), (March 1990),3772-3779	
		PAPE, M E., et al., "Tissue specific changes in acyl-CoA: cholesterol acyltransferase (ACAT) mRNA levels in rabbits", <u>Journal of Lipid Research</u> , 36(4), (1995),823-838	
		PIKULEVA, IRINA A., "Active-site topology of bovine cholesterol side-chain cleavage cytochrome P450 (P450 <sub>sc</sub> ) and evidence for interaction of tyrosine 94 with the side chain of cholesterol", <u>Archives of Biochemistry and Biophysics</u> , 322(1), (September 1995),189-97	
		PORTER, J A., et al., "Cholesterol modification of hedgehog signaling proteins in animal development", <u>Science</u> , 274(5285), (1996),255-9	
		STOCCO, D M., et al., "Regulation of the acute production of steroids in steroidogenic cells", <u>Endocr Rev.</u> , 17(3), (1996),221-44	
		SU, P, "A cDNA encoding a rat mitochondrial cytochrome P450 catalyzing both the 26-hydroxylation of vitamin D3: gonadotropic regulation of the cognate mRNA in ovaries", <u>DNA and Cell Biology</u> 9(9), (November 1990),657-67	
		TAKETANI, S, et al., "Induction of peripheral-type benzodiazepine receptors during differentiation of mouse erythroleukemia cells. A possible involvement of these receptors in heme biosynthesis", <u>Journal of Biological Chemistry</u> , (1994),7527-7531	

EXAMINER	/Ian Dang/	DATE CONSIDERED	06/13/2007
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Substitute Disclosure Statement Form (PTO-1449)  
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/I.D./	US-5,834,596	11/10/1998	Ageland, Hans , et al.	07/17/1997
	US-5,876,968	03/02/1999	Sirtori, , et al.	11/04/1993
	US-5,990,081	11/23/1999	Ageland, Hans , et al.	08/05/1998
	US-6,004,925	12/21/1999	Dasseux,	09/29/1997
	US-6,329,341	12/11/2001	Dasseux, , et al.	12/01/1999
	US-6,376,464	04/23/2002	Dasseux, , et al.	12/01/1999
	US-6,573,239	06/03/2003	Dasseux, , et al.	12/01/1999
	US-6,602,854	08/05/2003	Dasseux, , et al.	12/01/1999
	US-6,617,134	09/09/2003	Sirtori, , et al.	03/01/1999
	US-6,630,450	10/07/2003	Dasseux, , et al.	12/01/1999
	US-6,716,816	04/06/2004	Dasseux, , et al.	12/01/1999
	US-6,753,313	06/22/2004	Dasseux, , et al.	12/01/1999
	US-6,953,840	10/11/2005	Zhu, Lingyu , et al.	07/29/2003
↓	US-7,189,689	03/13/2007	Dasseux, , et al.	03/15/2002

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

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/I.D./		STN Accession No. 91083838,	
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